

Matthew J. Strickler Secretary of Natural Resources DEPARTMENT OF ENVIRONMENTAL QUALITY
SOUTHWEST REGIONAL OFFICE
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Phone (276) 676-4800 Fax (276) 676-4899
www.deq.virginia.gov

David K. Paylor Director

Jeffrey Hurst Regional Director

September 10, 2018

Mr. Dennis Plaster Vice President of Operations Michigan Cogeneration Systems, Inc. 46280 Dylan Drive, Suite 200 Novi, Michigan 48377

Location: Fairfax County, Virginia

Registration No.: 71961

Dear Mr. Plaster:

Attached is a renewal Title V permit to operate your facility pursuant to 9VAC5 Chapter 80 Article 1 of the Virginia Regulations for the Control and Abatement of Air Pollution. The attached permit will be in effect beginning September 10, 2018.

In the course of evaluating the application and arriving at a final decision to issue this permit, the Department of Environmental Quality (DEQ) deemed the application complete on July 26, 2017, and solicited written public comments by placing a newspaper advertisement in the *Washington Times* on June 20, 2018. The thirty-day required comment period, provided for in 9VAC5-80-270 expired on July 20, 2018.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. <u>Please read all permit conditions carefully.</u>

This permit approval to operate shall not relieve Michigan Cogeneration Systems, Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. Please consult the relevant regulations for additional requirements for such requests.

Mr. Dennis Plaster September 10, 2018 Page 2

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director Department of Environmental Quality P. O. Box 1105 Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please call James LaFratta at (703) 583-3928.

Sincerely,

Rob Feagins

Air Permit Manager

Southwest Regional Office

GRF/ABM/71961VA.DRF-18

Attachments: Permit

cc: Director, OAPP (electronic file submission)

Manager, Data Analysis (electronic file submission)

Office of Permits and Air Toxics (3AP10), U.S. EPA, Region III (electronic file

submission)



COMMONWEALTH of VIRGINIA

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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:

Michigan Cogeneration Systems, Inc.

Facility Name:

Michigan Cogeneration Systems, Inc.

Facility Location:

9898 Furnace Road, Lorton, Virginia 22079

Registration Number:

71961

Permit Number:

NRO71961

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 6 through 21)

<u>September 10, 2018</u>

Effective Date

September 9, 2023

Expiration Date

Jeffrey Hurst, Regional Director

Southwest Regional Office

Signature Date

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Facility Information

Permittee Michigan Cogeneration Systems, Inc. 46280 Dylan Drive, Suite 200 Novi, Michigan 48377

Responsible Official
Dennis Plaster
Vice President of Operations

Facility
Michigan Cogeneration Systems, Inc.
9898 Furnace Road
Lorton, Virginia 22079

Contact Person Dennis Plaster Vice President of Operations (585) 948-8580

County-Plant Identification Number: 51-059-00575

Facility Description: NAICS 221117 – The facility operates eight internal combustion engines which combust landfill gas, generated by the adjacent I-95 Landfill, to produce electricity for resale. Each engine is a Caterpillar model G3516 LE, rated at 8.55 MMBtu/hr heat input and 800 kW of electrical output while firing landfill gas. Natural gas can be used as an auxiliary fuel.

The facility is a Title V major source of carbon monoxide (CO) and formaldehyde, which is a hazardous air pollutant (HAP). This facility is located in Fairfax County, Virginia, which is part of the Northern Virginia Ozone Nonattainment Area, and is classified as moderate nonattainment for ozone. The county and region is in attainment with the National Ambient Air Quality Standards (NAAQS) for all other criteria pollutants. The facility is not a Prevention of Significant Deterioration (PSD) major source.

The facility is currently permitted under a minor new source review (NSR) permit dated December 22, 2016, and a State Operating Permit (SOP), dated May 10, 2000, which implemented Reasonably Available Control Technology (RACT) requirements for volatile organic compounds (VOCs) and nitrogen oxides (NO_x). The source is no longer considered a major source of NO_x emissions.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burn	ing Equ						
P1-1	S1	Phase I - Caterpillar Internal Combustion Engine No. 1, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP
P1-2	S2	Phase I - Caterpillar Internal Combustion Engine No. 2, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP
P1-3	S3	Phase I - Caterpillar Internal Combustion Engine No. 3, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP
P1-4	S4	Phase I - Caterpillar Internal Combustion Engine No. 4, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP
P2-1	S5	Phase II - Caterpillar Internal Combustion Engine No. 1, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
P2-2	S 6	Phase II - Caterpillar Internal Combustion Engine No. 2, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP
P2-3	S7	Phase II - Caterpillar Internal Combustion Engine No. 3, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP
P2-4	S8	Phase II - Caterpillar Internal Combustion Engine No. 4, Model 3516, landfill gas-fired	8.55 MMBtu/hr heat input, 800 kW power output				12/22/16 NSR permit and 5/10/00 SOP

^{*}The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

Fuel Burning Equipment Requirements – (Emission Units: P1-1, P1-2, P1-3, P1-4, P2-1, P2-2, P2-3, and P2-4)

- 1. Fuel Burning Equipment Requirements Limitations NO_x, CO, and VOC emissions from the engines shall be controlled by combusting a very lean air-to-fuel mixture, and controlling combustion air and fuel temperatures. The exhaust line on each engine shall be fitted with a port from which exhaust gases can easily be sampled for oxygen gas content to determine air-to-fuel ratio. The oxygen monitors shall be calibrated, operated and maintained in accordance with the manufacturer's written recommendations.

 (9VAC5-80-110, Condition 3 of 12/22/16 NSR permit and Condition 3 of 05/10/00 SOP)
- 2. Fuel Burning Equipment Requirements Limitations The approved fuels for the engines are landfill gas of at least 300 Btu per dry standard cubic foot (dscf) lower heating value (LHV), for normal operation and natural gas as an auxiliary fuel. (9VAC5-80-110 and Condition 4 of 12/22/16 NSR permit)
- 3. Fuel Burning Equipment Requirements Limitations The engines shall operate not more than a combined total of 60,000 hours per year, calculated monthly as the sum of each consecutive 12-month period. The engines also shall consume no more than a combined total of 1,400 million standard cubic feet of landfill gas per year and 13.6 million standard cubic feet of natural gas as an auxiliary fuel, with each fuel type annual throughput calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9VAC5-80-110 and Condition 5 of 12/22/16 NSR permit)

- 4. Fuel Burning Equipment Requirements Limitations The permittee shall not draw landfill gas when the engines are out of service.
 (9VAC80-110 and Condition 6 of 12/22/16 NSR permit)
- 5. Fuel Burning Equipment Requirements Limitations Emissions from the operation of the engines shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	Each Engine 0.0044 lb/kW-hr (3-hr avg.) ¹ 3.3 lbs/hr ²	Total for 8 Engines 99.0 tons/yr ²	
Carbon Monoxide	7.5 lbs/hr ²	225.0 tons/yr ²	
Volatile Organic Compounds	0.0015 lb/kW-hr (3-hr avg.) ³ 1.2 lbs/hr ²	36.0 tons/yr ²	

(9VAC5-80-110, ¹:Condition 3 of 5/10/00 State Operating Permit, ²:Condition 7 of 12/22/16 NSR permit and ³:Condition 4 of 5/10/00 SOP)

- 6. Fuel Burning Equipment Requirements Limitations Visible emissions from the engine exhaust stacks shall not exceed 5 percent opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity, as determined by EPA Method 9 (reference 40 CFR Part 60, Appendix A). (9VAC5-80-110 and Condition 8 of the 12/22/16 NSR permit)
- 7. Fuel Burning Equipment Requirements Limitations At all times, including periods of start-up, shutdown and malfunction, all engines and insignificant emission units shall be maintained and operated in a manner consistent with good air pollution control practices for minimizing emissions. Equipment operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at a minimum.

 (9VAC5-80-110 and Condition 6 of 5/10/00 SOP)
- 8. Fuel Burning Equipment Requirements Limitations Each engine shall be operated such that the oxygen content (O₂ as percent) in the exhaust of each engine is maintained at the level/concentration during the most recent performance test ± 0.5% O₂. An alternative range may be established based on the results of testing and as approved (in advance) by the Regional Air Compliance Manager of the DEQ's NRO. This condition applies at all times except start-up and shutdown.

 (9VAC5-80-110 and Condition 14 of 12/22/16 NSR permit)
- 9. Fuel Burning Equipment Requirements Monitoring The permittee shall monitor and record the oxygen content (O₂ as a percent) in the exhausts of at least two of the eight engine stacks each day of weekday operations. If the values of oxygen monitoring fall outside of the range identified in Condition 8, then corrective action shall be taken to operate at the proper oxygen range, as stated in Condition 12. (9VAC5-80-110, Condition 13 of 12/22/16 NSR permit and Condition 7 of 5/10/00 SOP)
- 10. Fuel Burning Equipment Requirements Monitoring At least once every three months, the permittee shall measure NO_x and CO emissions in the exhaust stack of each engine operating at least 90% of its rated capacity, using a portable gas analyzer. The analyzer(s) shall be calibrated and certified in accordance with the manufacturer recommended procedures (or alternate method as approved by the Regional Air Compliance Manager of DEQ's NRO).
 - a. The measurements shall consist of the average of instantaneous concentration readings that are obtained at the start, middle and end of a five-minute period. The first (of three) measurements will start after the portable analyzer has sampled engine exhaust for at least one minute.
 - b. The three individual measurements will be recorded and tabulated to obtain an average NO_x and CO measurement for each engine, corrected to 7% oxygen content (percent O₂).

c. The results shall be compared to the NO_x and CO concentration limits in Condition 11.

The results of the measurements and comparison shall be made available for inspection by DEQ and shall be current for the most recent five years. The Regional Air Compliance Manager of the DEQ's NRO shall be notified in writing (by fax, email, or mail) seven days in advance of the testing. An alternative testing schedule may be developed, provided the Regional Air Compliance Manager of the DEQ's NRO agrees to the alternative in advance of its use.

(9VAC5-80-110, Condition 15 of 12/22/16 NSR permit and Condition 7 of 5/10/00 SOP)

- 11. Fuel Burning Equipment Requirements Monitoring The upper bound for the quarterly NO_x and CO emission measurements, required in Condition 10, shall not exceed the following:
 - NOx concentration limit of 204 ppm, corrected to 7% O₂
 - CO concentration limit of 763 ppm, corrected to 7% O₂

An alternative upper bound may be established based on additional approved stack testing. (9VAC5-80-110, Condition 16 of 12/22/16 NSR permit and Condition 7 of 5/10/00 SOP)

12. Fuel Burning Equipment Requirements – Monitoring - For any engine, if the oxygen monitored in accordance with Condition 9 is out of the parameter range established in accordance with Condition 8, the permittee shall perform engine diagnostics, maintenance and adjustments as necessary to correct the out-of-range value. If parameter range is still exceeded following the corrective action, the permittee shall conduct a five-minute NO_x measurement, as described in Condition 10, using a properly calibrated and certified portable analyzer.

(9VAC5-80-110, Condition 17 of 12/22/16 NSR permit and Condition 7 of 5/10/00 SOP)

13. Fuel Burning Equipment Requirements – Monitoring - For any engine, if the NO_x or CO emissions monitored in accordance with Condition 10 is greater than the approved upper bound value in Condition 11, the permittee shall perform engine diagnostics, maintenance and adjustments as necessary to correct the out-of-range value. Following the corrective action, the permittee shall conduct a five-minute NO_x and/or CO measurement, as described in Condition 10, using a properly calibrated and certified portable analyzer. If this portable analyzer data indicates out-of-range values for the engine's emissions, the permittee shall notify the Regional Air Compliance Manager of DEQ's NRO within two business days of the exceedance. The permittee shall take immediate action to shut down the engine or curtail its operation to not exceed the analyzer compliance range, and/or conduct stack testing to demonstrate compliance with the permit limits.

(9VAC5-80-110, Condition 18 of 12/22/16 NSR permit and Condition 7 of 5/10/00 SOP)

Michigan Cogeneration Systems, Inc.
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14. **Fuel Burning Equipment Requirements** – **Monitoring** - At a minimum, the following process parameters shall be monitored and recorded for each periodic test required in Condition 10:

- a. O₂, NO_x and CO concentrations;
- b. The electrical output for each engine-generator set determined during each test; and
- c. Date and actual duration of the measurement. (9VAC5-80-110 F and Condition 7 of 5/10/00 SOP)
- 15. Fuel Burning Equipment Requirements Recordkeeping The permittee shall maintain records of all emissions data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be agreed upon by the Regional Air Compliance Manager of the DEQ's NRO. These records shall include, but are not limited to the following:
 - a. Copies of previous stack tests, and the monitoring results and graphs or tables prepared that correlate monitored parameters to the emission limit(s) in Condition 5.
 - b. Results of oxygen monitoring performed in accordance with Condition 9.
 - c. Manufacturer's procedures for calibration, operation and maintenance of oxygen monitoring devices.
 - d. Monthly and annual hours of operation and throughput of landfill gas and natural gas consumed by the engines. The annual hours of operation and throughput of landfill gas shall be calculated monthly as the sum of the previous consecutive 12 months.
 - e. Quarterly NO_x and CO concentration records as provided in Condition 10, including calibration and certification data for the portable analyzers.
 - f. Corrective actions taken (as applicable) in accordance with Conditions 12 and 13, including date and time of actions taken, and results of follow-up NO_x and/or CO monitoring.
 - g. Results of all stack tests, visible emission evaluations and performance evaluations.
 - h. Electrical output of each engine generator determined on a monthly basis;
 - i. Records of the operator training required in Condition 7, including a statement of time, place and nature of training.
 - j. Records of all scheduled and unscheduled maintenance on the engines, including date, time and type of maintenance performed.

k. Performance test results, including data correlating operating parameters to emissions as provided in Condition 18.

These records shall be made available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110 F, Condition 19 of 12/22/16 NSR permit and Condition 7 of 5/10/00 SOP)

- 16. Fuel Burning Equipment Requirements Testing The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Test ports shall be provided on each engine stack. (9VAC5-80-110 and Condition 9 of 12/22/16 NSR permit)
- 17. Fuel Burning Equipment Requirements Testing Performance tests shall be conducted annually, by December 31, on each engine for emissions of nitrogen oxides (as NO₂), using EPA reference method 7 or 7E, to determine compliance with the 'lb/hr' emission limit contained in Condition 5. Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30 and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests shall be arranged with the Regional Air Compliance Manager of DEQ's NRO, with a test protocol to be submitted at least 30 days prior to testing.
 - a. Emissions testing shall consist of three 1-hour test runs with the engine-generator set operating at greater than 90% of maximum rated electrical capacity. The average of the three runs shall be reported as the short-term emission rate for that engine-generator set.
 - b. The frequency of testing of a particular engine may be reduced to once every two years if the test result is less than 80% of the NO_x emissions limit (lb/hr per Condition 5) for the engine. However, if any subsequent test is at or above 80% of the NO_x emission limit, the permittee shall resume annual performance tests.
 - c. Measurements with a certified and calibrated portable NO_x analyzer shall be taken during stack testing to compare readings of the portable analyzer with the stack test results.

(9VAC5-80-110 and Condition 10 of 12/22/16 NSR permit)

18. Fuel Burning Equipment Requirements – Testing - The permittee shall conduct EPA Reference Method compliance testing for NO_x, CO and VOC in the exhaust stacks of each engine to determine compliance with the short-term limits contained in Condition 5, and EPA Reference Method testing for formaldehyde in the exhaust stacks of each engine. The testing shall also be used to develop a correlation between air-to-fuel ratio and exhaust oxygen, exhaust oxygen and NO_x as well as with CO emissions and VOC emissions. The correlation shall be recorded in tabular or graphical format and maintained on site for the duration of this permit. The compliance testing shall be conducted within 180 days of the effective date of this permit in accordance with the test methods presented in Condition 19, or other procedures approved in advance by the Regional Air Compliance Manager of the

DEQ's NRO. The details of the tests shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO, including submission of a test protocol at least thirty days prior to the test.

(9VAC5-80-110 and Condition 7 of 5/10/00 SOP)

19. **Fuel Burning Equipment Requirements – Testing -** If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)		
VOC	EPA Methods 18, 25, 25A, 25C, ALT-078, ALT-096		
NO _x	EPA Methods 7, 7E		
CO	EPA Method 10		
Visible Emission	EPA Method 9		
Formaldehyde	EPA Methods 320, 323		

(9VAC5-80-110)

- 20. Fuel Burning Equipment Requirements Testing Upon request by the DEQ, the permittee shall conduct additional performance tests and/or visible emission evaluations from the stack of each engine generator set to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Regional Air Compliance Manager of DEQ's NRO.

 (9VAC5-80-110 and Condition 12 of 12/22/16 NSR permit)
- 21. Fuel Burning Equipment Requirements Reporting During periods when the ability of the engines to burn the available landfill gas is curtailed, notification shall be provided to the Regional Air Compliance Manager of the DEQ's NRO and to those Fairfax County officials who are responsible for controlling excess landfill gas emissions by flaring or other appropriate means.

(9VAC5-80-110 and Condition 6 of 12/22/16 NSR permit)

22. Fuel Burning Equipment Requirements – Reporting - Two copies, one paper copy and one on removable electronic media, of the results of performance tests required in Condition 17 shall be submitted to the Regional Air Compliance Manager of DEQ's NRO within 60 days after test completion and shall conform to the test report format enclosed with this permit.

(9VAC5-80-110 and Condition 10 of 12/22/16 NSR permit)

23. Fuel Burning Equipment Requirements – Reporting - If the monitoring required in Condition 12 indicates the proper oxygen range in the engine exhausts is not maintained, the permittee shall submit a report to the Air Compliance Manager, Northern Regional Office, within three business days of discovering the out-of-range value. Each report must include the acceptable oxygen range corresponding to the appropriate air-to-fuel ratio, the

ambient air conditions during the period of excess emissions, and any graphs or tables (correlating oxygen and air-fuel ratio to emissions) developed during the most recent stack test with compliant emissions rates.

(9VAC5-80-110, Condition 13 of 12/22/16 NSR permit and Condition 7 of 5/10/00 SOP)

24. Fuel Burning Equipment Requirements – Reporting - Two copies of the compliance test results from the testing required in Condition 18 shall be submitted to the Regional Air Compliance Manager of DEQ's NRO, within forty-five days of completing the test. The test report shall include the tables or graphs developed as required in Condition 18 which correlate engine operating parameters to emissions. (9VAC5-80-110)

Insignificant Emission Units

25. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720 B)	Rated Capacity (9VAC5-80-720 C)
Lube 1	Lube oil storage tank	9VAC5-80-720 B	VOC	2,500 gallon
Waste 1	Waste oil storage tank	9VAC5-80-720 B	VOC	1,000 gallon
T-1	Condensate holding tank	9VAC5-80-720 C	VOC	200 gallon
T-2	Condensate holding tank	9VAC5-80-720 C	VOC	200 gallon
Crank 1	Engine crankcase oil storage vents	9VAC5-80-720 B	VOC	Unknown

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110. (9VAC5-80-110)

Permit Shield & Inapplicable Requirements

26. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Not applicable to units manufactured prior to 2007

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9VAC5-80-110 and 9VAC5-80-140)

General Conditions

- 27. General Conditions Federal Enforceability All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

 (9VAC5-80-110)
- 28. General Conditions Permit Expiration This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

 (9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
- General Conditions Permit Expiration The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration. (9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
- 30. General Conditions Permit Expiration If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

31. General Conditions - Permit Expiration - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

- 32. General Conditions Permit Expiration If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied. (9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
- 33. General Conditions Permit Expiration The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

 (9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
- 34. General Conditions Recordkeeping and Reporting All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of such analyses; and
 - f. The operating conditions existing at the time of sampling or measurement. (9VAC5-80-110)
- 35. General Conditions Recordkeeping and Reporting Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (9VAC5-80-110)

- 36. General Conditions Recordkeeping and Reporting The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - i. Exceedance of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."
 (9VAC5-80-110)
- 37. General Conditions Annual Compliance Certification Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:
 - a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
 - b. The identification of each term or condition of the permit that is the basis of the certification;
 - c. The compliance status;

- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9VAC5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov (9VAC5-80-110)

- 38. General Conditions Permit Deviation Reporting The permittee shall notify the Regional Air Compliance Manager of the DEQ's NRO within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 36 of this permit.

 (9VAC5-80-110 F.2)
- 39. General Conditions Failure/Malfunction Reporting In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four daytime business hours after the malfunction is discovered, notify the Regional Air Compliance Manager of the DEQ's NRO of such failure or malfunction and within 14 days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Regional Air Compliance Manager of the DEQ's NRO.

(9VAC5-80-110 and 9VAC5-20-180)

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- 40. General Conditions Severability The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

 (9VAC5-80-110)
- 41. General Conditions Duty to Comply The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application. (9VAC5-80-110)
- 42. General Conditions Need to Halt or Reduce Activity not a Defense It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

 (9VAC5-80-110)
- 43. General Conditions Permit Modification A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

 (9VAC5-80-110, 9VAC5-80-190 and 9VAC5-80-260)
- 44. General Conditions Property Rights The permit does not convey any property rights of any sort, or any exclusive privilege. (9VAC5-80-110)
- 45. General Conditions Duty to Submit Information The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality. (9VAC5-80-110)
- 46. General Conditions Duty to Submit Information Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G. (9VAC5-80-110)

47. General Conditions - Duty to Pay Permit Fees - The owner of any source for which a permit under 9VAC5-80-50 through 9VAC5-80-300 was issued shall pay permit fees consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350. The actual emissions covered by the permit program emission fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9VAC5-80-2340, adjusted annually by the change in the Consumer Price Index.

(9VAC5-80-110, 9VAC5-80-340 and 9VAC5-80-2340)

- 48. General Conditions Fugitive Dust Emission Standards During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
 - a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 - Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
 - d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
 - e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion. (9VAC5-50-90 and 9VAC5-80-110)
- 49. General Conditions Startup, Shutdown, and Malfunction At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are

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being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9VAC5-50-20 E and 9VAC5-80-110)

- 50. General Conditions Alternative Operating Scenarios Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1. (9VAC5-80-110)
- 51. General Conditions Inspection and Entry Requirements The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
 - a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
 - d. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
 (9VAC5-80-110)
- 52. General Conditions Reopening for Cause The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:
 - a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D. (9VAC5-80-110)
- 53. General Conditions Permit Availability Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request. (9VAC5-80-110 and 9VAC5-80-150)
- 54. General Conditions Transfer of Permits No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
 (9VAC5-80-110 and 9VAC5-80-160)
- 55. General Conditions Transfer of Permits In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within thirty days of the transfer and shall comply with the requirements of 9VAC5-80-200. (9VAC-5-80-110 and 9VAC5-80-160)
- 56. General Conditions Transfer of Permits In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within thirty days of the name change and shall comply with the requirements of 9VAC5-80-200. (9VAC5-80-110 and 9VAC5-80-160)
- 57. General Conditions Permit Revocation or Termination for Cause A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

 (9VAC5-80-110, 9VAC5-80-190 and 9VAC5-80-260)
- 58. General Conditions Duty to Supplement or Correct Application Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional

information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. (9VAC5-80-110 and 9VAC5-80-80 E)

- 59. General Conditions Stratospheric Ozone Protection If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F. (9VAC5-80-110 and 40 CFR Part 82)
- 60. General Conditions Asbestos Requirements The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150). (9VAC5-60-70 and 9VAC5-80-110)
- 61. General Conditions Accidental Release Prevention If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68. (9VAC5-80-110 and 40 CFR Part 68)
- 62. General Conditions Changes to Permits for Emissions Trading No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

 (9VAC5-80-110)
- 63. General Conditions Emissions Trading Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
 - a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.
 (9VAC5-80-110)